

S/081/62/000/024/047/052
5134/5102

Method for strengthening of ...

containing 30-35 g/l formaldehyde, 20-25 g/l $\text{Al}_2(\text{SO}_4)_3$, 150-170 g/l Na_2SO_4 , 30-40 g/l NaCl, and 100-105 g/l H_2SO_4 . The further treatment of the fiber (washing, dressing, and drying) is carried out by the standard methods. The fiber obtained shows an increased resistance to hot water. The fiber left in water at 80°C for 1 hr does not lose its fibrous character. [Abstracter's note: Complete translation.]

Card 2/2

OSINSKI, Z

"Methods of manufacturing large sheet-metal elements in aircraft production." p. 165
"Railway transportation of aircraft." p. 173
"Aeronautical dictionary; symbols used in the theory of flight." p. 177
(Technika Lotnicza, Vol. 8, No. 6, Nov./Dec., 1953, Warszawa)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June.
1954, Incl.

OSINSKI, Z

"Manufacturing of welded-tube fuselages." p. 44
"Soldering of aluminum and its alloys." p. 49
(Technika Lotnicza, Vol. 9, No. 2, Mar./Apr., 1954, Warszawa)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June 1954, incl.

OSINSKI, Z.

PHASE I BOOK EXPOSITION

POL/4460

Prison sentence book. Lekcje polimorficznych problemów. Warszawa:

Instytut Matematyczny, 1 (Problems of Nonlinear Vibrations), Vol. 1;

Warszawa, Państwowe Wydawnictwo Naukowe, 1960. 185 p. 650 copies printed.

Ed.: Stefan Szempliński, Deputy Ed.: Janusz Stankiewicz.

PURPOSE: This book is intended for scientists and engineers interested in theoretical and experimental research on vibrations.

COVERAGE: The collection contains 10 articles on the theory and measurement of nonlinear vibrations of structural systems. The basic problem is the nonlinear character of the dependence of the exciting forces on the strains or the initial or motion of particular elements of the investigated structural system. This nonlinearity is to be taken into consideration in calculating electrical and seismometric systems. The mathematical procedures of the investigation of motion in the calculation of the nonlinearity of systems with a finite number of degrees of freedom are based on the theory of dynamic systems generalized according to the work of Krylov and other classic studies. The combination of the partly technical problems of vibration theory with the theory of dynamic systems has contributed to the rapid development of nonlinear vibration theory during the last decades. The main research activities in this field have been based on the development of adequate mathematical theories like the school of V.I. Krylov and R.W. Yeager established in the USSR. In Poland, the international school of Prof. T. Wazewski is working in this field via very promising results. Prof. J. Stankiewicz, a group of workers of the IIMP PAN (Polish Nuclear Power Industry Research Institute) and Prof. S. Szempliński (Department of Vibrations, Institute of Basic Problems, Problems of the Polish Academy of Sciences) has conducted studies on two new problems: 1) the qualitative analysis and synthesis of motion of mechanical systems of several degrees of freedom, and 2) the quantitative analysis of the motion of such systems by asymptotic methods. The papers of this collection are concerned chiefly with the first set. References and summaries in Russian and English are given at the end of each article.

Gundlach, F. (German). Generalization of the Asymptotic Method of Approximation in the Theory of Nonlinear Vibrations of Nonautonomous Systems via Decay Mapping

69

Gundlach, F. Problem of the Influence of the Simultaneous Action of Existing Periodic Forces of Different Frequency on a Certain Nonlinear Vibrating System

73

Bogacki, M. (Polish). Vibration of Variable Length Rotating Rods

87

Kapitaniak, J. (Polish). New Solution of the Dynamical Problem of an Electromagnetic Beam

99

Solecki, B. (Polish). Vibration of a Plate Having the Shape of a Circular Sector

117

Some Bibliographical Items of the Polish Bulletin "Dynamika" (Department for Vibrations Study) for 1957-1959

151

AVAILABILITY: Library of Congress

C

OSINSKI, Zbigniew (Warszawa)

Criteria of the alternativeness of the vibrating motion of
a one degree of freedom system with nonlinear elastic force
and nonlinear damping. Zagad drgan nielin 3 49-63 '62.

OSINSKI, Zbigniew; WILCZKOWSKI, Jerzy (Warszawa)

Small parameter method as applied to studies on nonalternative motion. Zagad drgan nielin 3 73-80 '62.

OSIINSKI, Zbigniew (Warszawa)

Studies on the internal friction of metals at very small frequencies by the use of free torsional vibrations. Zagad drgan nielin 3 173-178 '62.

16.6500

S/124/62/000/004/003/030
D251/D301

AUTHOR: Osiński, Zbigniew

TITLE: A graphical approximation method of solving differential equations of forced oscillations of a system with one degree of freedom

PERIODICAL: Referativnyy zhurnal, Mechanika, no. 4, 1962, 16-17,
abstract 4A110 (Zesz. nauk. Politekhn. warsz., 1960,
no. 45, 127-136)

TEXT: A graphical method developed by the author is set out for the approximate solution of the equation of forced oscillations of a system with one degree of freedom of the form $\ddot{x} + R(\dot{x}) + \varphi(x) = f(t)$. The characterising damping $R(\dot{x})$ of the elastic force and $\varphi(x)$ and also the form of the perturbing force $f(t)$ may be presented in graphical form. The aforesaid method permits the simultaneous representation of the graphical phase trajectories on the phase plane vx and also the integral curves $x = \psi_1(t)$, and $v = \psi_2(t)$.

[Abstracter's note: Complete translation.]

Card 1/1

OSINSKI, Józef

Longitudinal, torsional, and bending vibrations of a uniform bar
with nonlinear internal friction and relaxation. Zeszyt drga-
nielni no. 4. 159-166 '62.

I. Department of Vibrations of the Institute of Basic Technical
Problems of the Polish Academy of Sciences, Warsaw. Submitted
September 2, 1961.

L 20051-65 ASD(f)-3

ACCESSION NR: AT4049213

P/2519/64/000/005/0419/0429

AUTHOR: Dobrzanski, L. (Warsaw); Osinski, Z. (Warsaw)

TITLE: Calculation of the period of strongly nonlinear damped vibrations

SOURCE: Polska Akademia Nauk, Instytut Podstawowych Problemów Techniki, Zagadnienia drgania nieliniowych, no. 5, 1964. Druga Konferencja Nieliniowych (Second Conference on Non-linear Vibrations), Warsaw, Sept. 18-21, 1962, 419-429

TOPIC TAGS: calculation, period, vibrating system, strong vibration, nonlinear vibration, damped vibration, linear damping, nonlinear spring force

ABSTRACT: This article deals with finding the half-period of vibrations a system with one degree of freedom which is described by an equation of the form

$$\ddot{x} + \alpha x + \beta x^2 + \gamma x^3 = 0, \quad (1)$$

Card 1/3

L 20054-65

ACCESSION NR: AT4049213

where α is the coefficient of linear damping and β and γ those of the nonlinear spring force, and with the initial conditions: when $t = 0$, $x = 1$ and $\dot{x} = 0$. This equation is reduced to the form

$$\ddot{x} + 2\alpha\dot{x} + x + \beta x^3 = 0, \quad (2)$$

where α describes the damping term and β the nonlinearity of the spring force, and with the initial conditions: when $t = 0$, $x = 1$ and $\dot{x} = 0$. The results obtained by solving (2) by means of a digital computer for different values of the coefficients α and β are analyzed. The following cases are investigated: a system with undamped vibrations and a system with damped vibrations. The results obtained from the proposed method are compared with those obtained by means of the small parameter method. The bounds within which the proposed method can be applied with some required accuracy are determined. Some approximate formulas which can be used to determine the period of strongly nonlinear damped vibrations are given. The method is illustrated by a numerical example. It is claimed that the results presented here can be applied directly to technical cases. Orig. art. has: 7 figures and 10 tables.

Card 2/3

L 20054-65

ACCESSION NR: AT4049213

ASSOCIATION: Department of Communication, Technical University
of Warsaw, Warsaw

SUBMITTED: 01Oct62 ENCL: 00 SUB CODE: ME

NO REF Sov: 001 OTHER: 003

Card 3/3

OSINSKI, Zbigniew (Warszawa)

Review of nonlinear differential equations of vibrations of
autonomous systems with one degree of freedom. Mechan teor
stosow l no. 1:7-36 '63.

ACCESSION NR: AT4017768

S/3037/63/003/000/0314/0325

AUTHOR: Osinski, Z. (Osinskiy, Z.) (Poland)

TITLE: Oscillations of a system with one degree of freedom having nonlinear internal friction and relaxation

SOURCE: International Symposium on Nonlinear Oscillations. Kiev, 1961. Prilozheniya metodov teorii nelineynykh kolebaniy k zadacham fiziki i tekhniki (Applying methods of the theory of nonlinear oscillations in problems of physics and technology); trudy* simpoziuma, v. 3. Kiev. Izd-vo AN UkrSSR, 1963, 314-325

TOPIC TAGS: automation, feedback, control system, control system oscillation, degree of freedom, internal friction, nonlinear internal friction, relaxation resistance, elastic resistance

ABSTRACT: The oscillations of a system with one degree of freedom are considered. It is assumed that the elastic element is nonlinear and possesses, in addition to elastic properties, properties of internal friction and relaxation. It is further assumed that the total resistance, exerted by this element on deformation, is composed of three terms, namely: the elastic resistance S, the internal friction resistance T and the relaxation resistance R. The motion of this system can be described by a third-order differential equation (for a

Card 1/2

ACCESSION NR: AT4017768

system with one degree of freedom):

$$\ddot{m\sigma} + \sigma = F(t),$$
$$\sigma + b\dot{\sigma} + f\sigma^3 = a\ddot{\sigma} + d\dot{\sigma}^2 + c\dot{\sigma}\dot{\sigma} + e\dot{\sigma}^3,$$

in which σ is the deformation, σ' is the stress, m is the mass of the system; a, b, c, d, e, f are constants which determine the elastic, relaxation and damping properties of the material of the elastic element. The purpose of the present article is to verify the possibility of describing the oscillations of a system, which possesses damping and relaxation properties, with the help of this equation. (The oscillations of this type of mechanical system have so far been described by second-order equations; in this case, the author is dealing with a third-order equation.) In the case of free vibrations, the solution is obtained by the small-parameter method. The author investigates the influence of nonlinear components (describing the elastic resistance, the internal friction resistance and the relaxation resistance) on the motion of the system and, in particular, on the displacement of the null axis and on the logarithmic decrement. An approximate solution is obtained in the case of forced resonance vibrations. The resonance curve and the problem of the number of stable and unstable periodic solutions are considered. Orig. art has: 13 figures and 34 formulas.

ASSOCIATION: None

Card 2/02

BRONIAREK, Czeslaw; OSINSKI, Zbigniew (Warszawa)

A case of flexural vibration of the rotating shaft with
nonlinear material property characteristics. Archiw bud
masz 10 nr. 4: 369-382 '63.

OSIN'SKI, Zbignev [Osinski, Zbignew] (Varshava)

Natural vibrations of a system with one degree of freedom in the presence of structural damping. Izv.AM SSSR.Mekh. i mashinostr. no.5:42-45 S-0 '63. (MIRA 16:12)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

JOURNAL OF CLIMATE

of service, and the period of apprenticeship, the period of probation, and the period of freedom, as well as the

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

KRZYSZTOPORSKI, S., OSBISKIEJ, M., STOCHOWIEJ, K., TUROZYNSKIEGO, T.,
MIRSZEJEWICZ, L.

Further investigations on preventing abortions by antistine.
Polski tygod. lek. 5:9, 27 Feb. 50. p. 321-5

1. Of the Institute for Medical Microbiology and of the Clinic
Obstetrical-Gynecological of the Medical Academy in Wroclaw.

CLML 19, 5, Nov., 1950

GULO, D.D.; KONONKOV, A.F., kand. fiz.-mat.nauk; OSINOVSKIY, A.N.

History of the foundation of the State Optical Institute,
on its 45th anniversary. Ist. i metod. est. nauk no. 3:273.
299 '65. (MIRA 12 12)

30V/35-59-8-6766

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959,
Nr 8, p 96

AUTHOR: Osinskiy, B.

TITLE: Tables for Non-Logarithmic Calculation of Geodetic Coordinates
From First-Order Triangulation Rays

PERIODICAL: Tr. Mosk. in-ta inzh. geod., aerofotos'yemki i kartogr.,
1958, Nr 3, pp 5 - 11

ABSTRACT: The author describes tables compiled by degree students of the
MIIGAiK under the guidance of G.V. Bagratuni for non-logarithmic
calculation of geodetic coordinates from first-order tri-
angulation rays. The tables are compiled for Krasovskiy's
ellipsoid within the range from 35 to 70° of latitude and for
lengths of geodetic lines from 30 to 50 km. It is noted that
the solution of a direct geodetic problem by the non-logarith-
mic method with the use of new tables and semiautomatic compu-
ters takes 20% less time than the calculation by Schreiber's

Card 1/2

SOV/35-59-8-6766

Tables for Non-Logarithmic Calculation of Geodetic Coordinates From First-
Order Triangulation Rays

formulae. A model of the new tables is cited and an example of their use for
calculating coordinates is given.

N I. Bruyevich

Card 2/2

O'Sullivan, B.U.

304 / 6 - 7 - 1 - 4 / 2

卷之三

Soboleva, O. I.
TITLE: Results of the Competition for the Best Improving
Sugars (Itogi konkursa na luchshye rastionalizatorye-
scheniya v sovremennoy promstsvstvovaniye)

TYPE LOCALITY: *Coccolithus* 1, *Barro Colorado*, 1959, nr 7, PP 17-21 (USNM)

In May 1959, the ordinary competition for the best improving designations in the field of topographic-geodetic and cartographic production was concluded at the Glavnoy upravlyayushchim 1 Kartografiya MVD SSSR [Main Administration of Geography and Cartography of the Ministry of Internal Affairs of the USSR]. 7 serogetodetic services, 6 cartographic institutes of the MVD, 7 serogetodetic services, 6 cartographic institutes

Card 2/6

200 miles each were recorded to a scale of 1:100,000. The distances between the points were measured by the method of fixed Peals by the Method of Traversing by Means of Tapes. 2) F. A. G. Shashin (Yakutsk AGP) (Yakutsk AGP) for Construction of an Overhead Trolley for Timber Transport. 3) I. A. Kryin (Yakutsk AGP) (Yakutsk AGP) for Variation in the Distribution of Photo-points on the STP-2*. 4) N. P. Zarubin (Yakutsk AGP) (Yakutsk AGP) for "Raising or Lowering of Bridges by Nature." 5) D. I. Sazonov, L. V. Gurvich, S. I. Aleksandrov, V. M. Partchik, L. M. Klimkin and V. A. Kudravtsev (Khabarovsk AGP) for "Technique of the Completion and Finalization of Topographic Maps by the Photocell Method." 6) M. F. Glushanov (Khabarovsk AGP) for "Technical Conditions for the Production of Vertical Piling Machine for Brochures." 7) A. A. Tsvetkov (Khabarovsk Kartograficheskaya Fabrika (Fakhnik Kartograficheskaya Fabrika)) for "Mechanism for the Loading of Trucks with Paper Rolls." 8) N. M. Sotolova (Ust'-Kut AGP) (Ust'-Kut AGP) for "Replica of the Arc Lamp for the Ballonetograph-printing Machine Equipped by an Illuminating Device with Lamella Lamp DS-4?". 9) E. G. Grishko (Khabarovsk AGP) for "Sauer Projector" (Sauer Projektoren) for the Preparation of Map Compilations and Film Compositing". 10) L. G. Isayev (Severo-Sapadny AGP (Northwest AGP)) for "Procedure of the Contact Mechanism in the Microscope". 11) G. L. Anishev (Yakutsk AGP) for "Formalization of Superformulae and Formulas for a More Rational Computation of Super-elevations From the Triangulation Levelling." 12) D. V. Tikhonov (Sverdlovsk AGP (Sverdlovsk AGP)) for "The Number and Precision of Levelling Staffs." 13) G. A. Arzhanov (Yakutsk AGP (Yakutsk AGP)) for "Tables and Tables for Extreme Divergences Between the Free Terms of Tides and Wave Conditions Computed on a Sphere and on a Spherical Surface." The following suggestions were proposed by the jury: 1) N. I. Tsyber (Goriachinsk AGP) for "Sverdlovsk AGP" 2) N. I. Vinogradov (Sverdlovsk AGP) for "Observations From the Teleferic Tower." 3) N. I. Vinogradov (Sverdlovsk AGP) for "Observations From the Teleferic Tower." 4) N. I. Vinogradov (Sverdlovsk AGP) for "Observations From the Teleferic Tower."

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

309/6-5)-7-4/25
Correlation

卷八

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

OSINSKI, Zbigniew (Warszawa)

Free vibrations of a nonlinear system considering relaxation and
internal friction. Archiw bud masz 8 no.4:411-426 '61.

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

OSINSKIY, A.V.

Find of luneburgite in the Kerch Peninsula. Trudy VNIIG
no.40:322-329 '60. (MIRA 14:11)
(Kerch Peninsula--Luneburgite)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

U.S. AIR FORCE, NATIONAL GUARD, AIR NATIONAL GUARD

U.S. AIR FORCE, NATIONAL GUARD, AIR NATIONAL GUARD

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

OSINSKIY, A.V.

Formation of breccia among Paleozoic sediments in the Minusinsk
Lowland and Dzhezkazgan Depression and its role in rhodizite
mineralization. Trudy VSGHEI 118:37-49 '64.

(MIRA 18:2)

OSINSKIY, B., student

Tables for nonlogarithmic computation of geodetic coordinates based
on first order triangulation. Trudy MIIGAIK no.30:5-11 '58.

1. Kafedra vysshoy geodezii Moskovskogo instituta inzhenerov geodezii
aerofotos"yemki i kartografii.
(Triangulation)

G.SINISKIY B

3(4)

PHASE I BOOK EXPLOITATION

SOV/2072

Moscow. Institut inzhenerov geodezii, aerofotos "yemki i kartografi

Trudy, vyp. 30 (Transactions of the Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers, Nr 30) Moscow, Geodezizdat, 1958. 95p. Errata slip inserted. 1,200 copies printed.

Editorial Board: A. I. Mazmishvili (Resp. Ed.), V. I. Avgevich (Deputy Resp. Ed.), G. V. Bagratuni, N. Ya. Bobir, M. N. Volkov, A. I. Durnev, S. V. Yeliseyev, P. S. Zakatov, G. P. Levchuk, N. I. Modrinskiy, M. D. Solov'yev, B. V. Fefilov, and P. F. Shokin.

PURPOSE: This collection of articles is intended for geodesists, photogrammetrists and cartographers.

COVERAGE: This issue is devoted primarily to problems in geo-

Card 1/4

Transactions of the Moscow Institute (Cont.) SOV/2072

desy. Individual articles on photogrammetry and cartography are also included. The articles on geodesy treat: 1) the computation of coordinates from sides in primary triangulation, 2) continuous operation electric computers for adjustments, 3) solar eclipses as related to the figure of the Earth, 4) problems of the Earth's flattening, 5) surveys for construction work, and others. On the subject of photogrammetry there are articles on photo rectifier FTB and on the properties of silver bromide. In cartography, the matter of problematical islands in the Arctic is discussed. References accompany individual articles.

TABLE OF CONTENTS:

<u>Osinskiy, B.</u> Tables for Non-Logarithmic Computation of Geodetic Coordinates from Sides of First Order Triangulation	5
Korobochkin, M. The Question of Using Continuous Operation Electric Computers in Errors Compensation	13
Plakhov, Yu. Solar Eclipses and the Figure of the Earth.	

Card 2/4

Transaction of the Moscow Institute (Cont.)	SOV/2072
General Theory	23
Plakhov, Yu. Some Problems in the Theory of Determining the Polar Flattening of the Earth from Lunar Parallax	31
Feygel'man, A. Signal Lamps	35
Bronshteyn, G. Establishing Survey Nets for Construction Work by Professor A. I. Durnev's Method of Intersections	41
Nemtsov, V. Applying Elements of the Theory of Matrices to Some Problems of the Theory of Mathematical Processing of Observations	53
Kolobkova, L. Evaluation of the FTB (photo rectifier)	73

Card 3/4

Transaction of the Moscow Institute (Cont.) SOV/2072

Koryakin, V. Problematical Lands of the Arctic	77
Shekhu, Agim. Selecting Constants in Equiangular Polar Conic Projections	83
Oknin, Yu. The Study of Some Properties of Silver Bromide Layers in Map Production	91

AVAILABLE: Library of Congress

MM/bg
7/16/59

Card 4/4

OSINSKIY, G.A., mayor tekhnicheskoy sluzhby

Communication between the RSP radar system and the alert crew
center. Vest.protivovozd.obor. no.9:66-67 S '61. (MIRA 14:8)
(Radio, Military)

1 12163-66 EWT(d) BC

ACC NR: AP6001175

SOURCE CODE: UR/0256/65/000/007/0066/0066

AUTHOR: Osinskiy, G. A. (Major of technical services)

ORG: None

TITLE: A new beacon

SOURCE: Vestnik protivovozdushnoy oborony, no. 7, 1965, 66

TOPIC TAGS: light beacon, radar station, ground radar, fluorescent lamp, neon lamp, navigation light

ABSTRACT: The author describes a new light beacon for marking long-range radar stations which can be seen at a far distance under poor weather conditions by aircraft crews. The beacon is powered from an a-c 380/220 V network. The voltage (3 V) of the filament of the fluorescent lamps is taken off 4 filament windings of a transformer. The voltage is fed to the lamps through low-voltage choke coils which limit the current flowing across the arc discharge of the fluorescent lamps and prevents their failure. To reliably fire the lamps a high voltage, taken from the secondary winding of a starting coil, is supplied to their bulbs. Since the high voltage is needed only at the time of firing, a switch is connected into the circuit supplying the primary winding of the starting coil, which disconnects the circuit after the lamps are lighted. The neon beacon consists of a glass cover in which the fluorescent lamps and starting coil are placed and the power supply unit, which is installed in the room of the radar station. A 10--15 m long cable connects the

Cord 1/2

35

B

L 12163-66

ACC NR: AP6001175

power supply unit and the lamps. Orig. art. has: 1 figure.

SUB CODE: 09/77 SUBN DATE: none

HW
Card 372

VAVILOV, Ye.N.; RORTNOY, G.P. Prinimali uchastiye: BARKOV, A.A.; OSINSKIY, L.M.; LYUBIMOVA, T.M., red.; SVESHNIKOV, A.A., tekhn. red.

[Synthesis of the circuits of electronic digital] Sintez skhem elektronnykh tsifrovych mashin. Moskva, "Sovetskoe radio," 1963. 439 p. (MIRA 17:3)

OSINSKIY L. M.

ACCESSION NR: AP4026842

S/0102/64/000/002/0042/0049

AUTHOR: Vavilov, Ye. M. (Kiev); Osy*ns'ky*y, L. M. (Osinskiy, L. M.) (Kiev)

TITLE: Structural synthesis of automata operating with additional cycles

SOURCE: Avtomaty*ka, no. 2, 1964, 42-49

TOPIC TAGS: automatic control, automaton, additional cycle automaton, finite automaton

ABSTRACT: A method of simplifying the structural schemes of finite automata by introducing additional internal clock-cycles is considered. Elementary automata having two types of output signals (determined by their internal state and by transition from one state into another) are called "Moor-Mili automata"; the peculiarities of automatic systems constructed with such automata are considered. These two examples illustrate the structural synthesis method: (1) a 3-digit binary pulse counter and (2) same, with a scaling factor of 5.

Card 1/2

ACCESSION NR: AP4026842

Orig. art. has: 3 figures, 12 formulas, and 3 tables

ASSOCIATION: none

SUBMITTED: 04Jun62

DATE ACQ: 17Apr64

ENCL: 00

SUB CODE: DP, IE

NO REF SOV: 001

OTHER: 001

Card 2/2

LARIN, L.K. (Kiyev); OSINSKIY, L.M. (Kiyev)

Method for the efficient coding of the states of a partial
automaton. Izv. AN SSSR. Tekh. kib. no.5:103-107 S-0 '65.
(MIRA 18:11)

OSINSKIY, P.A.

Nature of conjugated movements of the pelvis and the spinal column
in some mammals. Zool. zhur. 38 no.11:1711-1718 N '59 (MIRA 13:3)

1. Chair of Anatomy of Farm Animals, Ukrainian Academy of Agricultural
Sciences, Kiyev.
(Animal mechanics) (Pelvis)
(Spine)

4

S/137/61/000/006/042/092
A005/A101

AUTHORS: Gulyayev, O.I., Pinkel'shteyn, Ya.S., Gulyayev, I.N., Kolyavskiy,
N.M., Osinskiy, V.A., Chudnyy, I.G., Bogomazov, M.M., Smakabatur,
K.I.

TITLE: Investigating the operation of a three-roll reduction mill

PERIODICAL: Referativnyy zhurnal. Metalurgiya, no. 6, 1991, 35, abstract 6D285
("Byul. nauchno-tekhn. inform. Ukr. n.-i. truda. In-t", 1999, no.
6 - 7, 48 - 57)

TEXT: The authors studied the operation of an 18-stand three-roll reduction mill for the purpose of establishing the rolling technology for both seam-less and welded water-gas pipes under conditions of the Plant imeni Lenin. It was established that the combination of the former grooving of the rolls with kinematics of a three-roll reduction mill, makes it possible to obtain the necessary elongation only when reducing welded pipes of 2 and $1\frac{1}{2}$ " diameter to 1" diameter. In the other cases the wall of the central pipe section is, after rolling, thicker than required by 0037 3252-55. The authors calculated and investigated new calibration of the rolls, for reducing pipes from 48 x 3.5 mm to

Card 1/2

4

5/37/61/000/006/042/092
K56/A101

Investigating the operation ...

21.25 x 2.75 mm. It was established that the efficiency can be raised if pipes of 2, $1\frac{1}{2}$ and $1\frac{1}{4}$ " diameter are manufactured only by welding on mill no. 2, and pipes of $1\frac{1}{4}$, $1\frac{1}{2}$ and $2\frac{1}{2}$ " diameter on mill no. 1 with the use of reduction. Preliminary calculations have shown that the reduction of 7.5 m long pipes from a 2" diameter to $1\frac{1}{4}$ ", from 2" to $1\frac{1}{2}$ " and from $1\frac{1}{2}$ " to $2\frac{1}{2}$ " will raise the efficiency of the pipe-welding shop at the Plant imeni Lenin by 12.81%; the coefficient of metal consumption will increase by 14%. To maintain the coefficient of metal consumption on the level of planned figures, and to obtain a further increase in the efficiency of the reduction mill, it is necessary to increase the length of the welded pipes prior to rolling up to 9.6 - 15.5 m.

Yu. Manegin

[Abstracter's note: Complete translation]

Card 2/2

SIROTA, V.M.; OSINSKIY, V.I.

Temperature dependence of the intensity of recombination radiation
in n - p-junctions on indium phosphide. Dokl. AN BSSR 9 no. 11:
720-721 N 165
(MIR 19:1)

I. Institut fiziki tverdogo tela i poluprovodnikov R^U RSFSR.

L 36077-6 EMT(k)/EMP(t)/ETI IJP(e) JB
ACC NR: AP6014346 SOURCE CODE: UR/0250/65/009/011/0720/0721

AUTHOR: Sirota, N. N.; Osinskiy, V. I.

ORG: Institute of Solid State Physics and Semiconductors, AN BSSR (Institut fiziki tverdogo tela i poluprovodnikov AN BSSR)

TITLE: Temperature dependence of the intensity of radiation of np recombination transitions in indium phosphide

SOURCE: AN BSSR. Doklady, v. 9, no. 11, 1965, 720-721

TOPIC TAGS: temperature dependence, indium compound, recombination radiation, forbidden zone width, *PN junction*

ABSTRACT: The test apparatus consisted of an optical dewar provided with a copper holder on which a radiating diode of indium phosphide was mounted. Specimen temperature was measured by means of a thermocouple and an electronic potentiometer. The characteristic radiation of indium phosphide is in the 8990 Å (77°K) to 9570 Å (300° K) wavelength range and the maximal values of the spectral distribution curves of energy are close to those of the forbidden zone width. Measurements of light fluxes were made by a photomultiplier. The measured magnitudes represented integrated functions of these spectral distributions. From the plots of the data on the integrated light fluxes (in arbitrary units) vs temperature in the 77-300°K range for 0.15, 1.00 and 5 am-

Card 1/2

Card 2/2

L 29680-66 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) AT/JD
ACC NR: AP6012853 SOURCE CODE: UR/0368/66/004/004/0313/0315
68
P

AUTHOR: Sirota, N. N.; Osinskiy, V. I.

ORG: none

TITLE: Effect of temperature on the recombination radiation spectrum of indium phosphide n-p junctions 21

SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 4, 1966, 313-315
TOPIC TAGS: recombination radiation, indium compound, phosphide, pn junction, junction diode, forbidden band, impurity level, temperature dependence, emission spectrum

ABSTRACT: The authors investigated the spectral distribution of the recombination radiation of diffusion n-p junctions in indium phosphide at 77, 138, 210, and 298K. The junction was prepared by a standard technology from n-type indium phosphide. The recombination radiation was measured with an ISP-51 spectrometer. The spectrum was registered with the photomultiplier (FEU-28) and an automatic potentiometer (EPP-09M). The resolution of the apparatus was approximately 15 Å in the 9000 Å wavelength region. The emission from the diodes was investigated in a pulsed mode using 5 µsec rectangular current pulses of amplitudes 0.5-2 a, with

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Card 1/2

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ACC NR: AP6012853

a repetition frequency of 50 cps. The diode emission in the n-p junction plane was measured. With increasing temperature, the maximum of the spectral intensity shifted toward larger wavelengths, and the width of the spectral line increased. The maximum of the recombination radiation decreased in temperature nearly linearly, in analogy with the temperature variation of the width of the forbidden band. The quantum energy at the maximum of the recombination radiation spectrum differed from the corresponding values of the width of the forbidden band by 0.01 ev. This difference is attributed to recombination at the impurity levels. The results indicate also that the variation of the wavelength of the recombination-radiation maximum of the indium phosphide can be used to measure the temperature remotely, without the use of wires, at relatively large distances from the emitting diode. Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: 16Apr65/ ORIG REF: 003/ OTH REF: 004

Card 2/2 CC

ACC NR: AP6036838

SOURCE CODE: UR/0020/66/171/002/0317/0319

AUTHOR: Sirota, N. N. (Academician AN BSSR); Osinskiy, V. I.

ORG: Institute of Solid State Physics and Semiconductors of the Academy of Sciences BSSR (Institut fiziki tverdogo tela i poluprovodnikov Akademii nauk BSSR)

TITLE: Emission from n-p junctions in crystals of indium phosphide -- gallium arsenide solid solutions

SOURCE: AN SSSR. Doklady, v. 171, no. 2, 1966, 317-319

TOPIC TAGS: indium compound, phosphide, gallium arsenide, solid solution, pn junction forbidden band, recombination radiation

ABSTRACT: This is a continuation of earlier work (Dokl. BSSR no. 9, 1964 and no. 4 1963) where it was established that a continuous series of solid solutions exists in the indium phosphide -- gallium arsenide system. The present study is devoted to the possibility of producing emission from n-p junctions made up of these solid solutions. The n-p junctions were made by diffusion of zinc from the gas phase. The recombination-radiation spectrum was investigated with a spectrometer (ISP-51). The maximum of the recombination spectrum of the n-p junction emission in indium phosphide at liquid-nitrogen temperature was previously found to be near 9000 Å and had the longest wavelength of all the investigated compositions. With increasing GaAs content,

Card 1/2

UDC: 621.382.2:535.376.546.681'18/19

ACC NR: AP6036838

the wavelength of the maximum decreased, the shorter wavelength being obtained with n-p junctions containing 70% of GaAs. The calculated quantum energies corresponding to the maximum of the emission spectra, are close to the values of the forbidden-gap width, which later decreases as the temperature rises from 77 to 293K. A study of the temperature dependence of the emission spectra at constant current density shows that the intensity of the main line of the spectrum decreases with increasing temperature, the line width increases, and the spectral distribution shifts towards longer wavelengths. Plots showing the dependence of the wavelength of the maxima of the spectra on the composition, the spectral distribution of the n-p emission as a function of the temperature, and the temperature dependence of the quantum energy at the maximum of the emission for the various compositions are presented. It is concluded that crystals of alloys of the system indium phosphide--gallium arsenide can be used to produce radiating diodes, whose recombination radiation covers a broad range of wavelengths from visible to the near infrared region. The authors thank G. G. Shiyenok for help with the growing of the crystals and producing the emitting diodes. Orig. art. has 4 figures.

SUB CODE: 20/ SUBM DATE: 15Aug66/ ORIG REF: 005/ OTH REF: 003

Card 2/2

ACC NR: AT/0K/3-3

SOURCE COPY: UR/0000/66/000/000/0217/0220

AUTHOR: Sirota, N. N. (Academician AN BSSR); Osinskiy, V. I.

ORG: none

TITLE: Effect of temperature on the quantum yield of radiative recombination in n-p junctions in InP

SOURCE: AN BSSR. Institut fiziki tverdogo tela i poluprovodnikov. Khimicheskaya svyaz' v poluprovodnikakh i termodinamika (Chemical bond in semiconductors and thermodynamics). Minsk, Nauka i tekhnika, 1966, 217-220

TOPIC TAGS: indium compound, phosphide, quantum yield, radiative recombination, np junction, temperature dependence, impurity center

ABSTRACT: This is a continuation of earlier work (DAN BSSR v. 9, no. 11, 720, 1965) dealing with the temperature dependence of the integral light flux of recombination radiation in n-p junctions in InP. The present paper deals with the role of the mean-square dynamic displacements in the temperature dependence of the quantum yield of radiative recombination of free carriers following injection through an n-p injector in InP. The experiments consisted of recording the intensity of the recombination radiation at the maximum of the spectral curve, the integral intensity at different injection levels and acceptor impurity concentrations, the width of the spectral curves, and also the change in the resistance of the sample. The results show that the intensity of recombination radiation at the maximum of the spectrum varies

Card 1/2

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ACC NR: AT7003883

nearly exponentially with the temperature. The width of the spectral line is practically a linear function of the temperature and its magnitude corresponds to an energy of the order of kT . With increasing temperature, the quantum yield of the radiative recombination decreases, first rapidly, and then more slowly. The temperature dependence is qualitatively the same for different acceptor-center concentrations. The integral quantum yield of the radiative recombination varies practically linearly with the crystal-lattice phonon energy. The mean square dynamic displacements of the atoms increase greatly with rising diode temperature from nitrogen to room temperatures. It is concluded that an important role is played in the temperature dependence by the dynamics of the crystal lattice of the material from which the junction is made. This is borne out by comparison with results obtained elsewhere for gallium arsenide. Orig. art. has: 3 figures and 1 formula.

SUB CODE: 20/ SUBM DATE: 20Aug66/ ORIG REF: 003/ OTH REF: 001

Card 2/2

OSINSKIY, V.V., kand.med.nauk

Use of bicillin in pneumonia. Vrach. delo no.6:128-129 Je '61.
(MIA 15:1)

1. Kafedra fakul'tetskoy terapii (zaveduyushcyiy - kand.med.nauk
V.V.Osinskiy) Luganskogo meditsinskogo instituta.
(PENICILLIN) (PNEUMONIA)

(SINSKIY, V. V.

SINSKIY, V. V. -- "The Use of Sintorycin to Treat Cholecystitis pa-tients." L'vov State Medical Inst. L'vov, 1955. (Dissertation for the Degree of Candidate in Medical Sciences).

So.: Knizhnaya Letcpis', No. 2, 1956.

OSINSKIY, V.V., kand.med.nauk

Myxedema with anemia caused by a deficit of vitamin B₁₂. Vrach.delo
no.11:126-127 N '60. (MIRA 13:11)

1. Kafedra fakul'tetskoy terapii (ispolnyayushchiy obyazannosti
zaveduyushchego - V.V.Osinskiy) Luganskogo meditsinskogo instituta.
(MYXEDEMA)
(ANEMIA)
(DEFICIENCY DISEASES)

OSINNISSEV, A.

USSR

Candidate of Economic Sciences

"For Broader Application of Cost Accounting in Enterprises", Press, 1971

SOURCE: Current Digest of the Soviet Press, Vol. 31, No. 16, 1971, p. 1
(In CIA Library)

OSINTSEV, I.S., prof., doktor ekonom. nauk, YAROV, V.V., dets. na

Determining the degree of complexity of mechanization and
automation of production and the level of work mechanization
in metallurgical combines. Sbor. nauch. trud. Ural. polittek.
Inst. no. 122-276-285 '61.

MVD 17 14

OSINTSEV, Arkadiy Stepanovich; VERSHININ, A.M., redaktor; SKOROKHODOV, A.A.,
redaktor; LUCHKO, Yu.V., redaktor izdatel'stva; KOVALENKO, N.I.,
tekhnicheskiy redaktor

[An analysis of potentials for reducing the cost of steel] Analiz
rezervov snizheniya sebestoimosti stali. Sverdlovsk, Gos. nauchno-
tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe
otd-nie, 1956. 125 p.
(Steel)

137-58-6-11568

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 41 (USSR)

AUTHOR Osintsev, A.S.

TITLE Some Technical and Economic Indices of the Urals Metallurgical Industry Over the Past 250 Years (Nekotoryye tekhniko-ekonomicheskiye pokazateli Ural'skoy metallurgii za dva s polovinoy veka)

PERIODICAL Tr. Ural'skogo politekhn. in-ta, 1957, Nr 40, pp 49-59

ABSTRACT The ironmonger shops of the Urals were founded as enterprises of the manufacturing type. Labor productivity at the Urals plants in 1723 was 2.4 times as great as that of trade smithies. At the start of the period of the Reforms, the Urals were producing 241,700 tons of iron, or 82.0% of the total. In the 150 years from the times of Peter the Great to 1861 labor productivity had risen to only 2.1 times its initial level, unit ore consumption had dropped by 27%, and that of fuel by 60%. The period from the Reforms to the coming of Soviet power was characterized by stagnation of Urals metallurgy. In 1913, 913,500 t of pig iron was smelted in the Urals, or 21.7% of the national output. Production per blast furnace worker was 55%

Card 1/2

137-58-6-11566

Some Technical and Economic (cont.)

lower than in the South. Production of metal in the Urals in 1940 was 3 times as high as in 1913 in pig iron, 4.2 times as high in steel, and 4.2 times as high in rolled products. During the war, pig iron output doubled, that of steel increased by 70%, that of rolled products by 60%, and tubes by 420%. At the end of the Fifth Five-year Plan, the Urals were producing significantly more ferrous metals than France and were on a par with West Germany and England. The utilization of blast furnaces and foundry furnaces is approximately 30% higher than the American. The smelting of pig iron per worker rose from 117 t in 1913 to 7000, or about 60 times, and that of steel from 62 to 3000 t, i.e., 48 times.

D.P.

1. Industrial production--U.S.S.R. Economic conditions--U.S.S.R.

Card 2/2

Osintsev, A.S.

137-1958-3-4669

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 30 (USSR)

AUTHOR: Osintsev, A.S.

TITLE: The Growing Need for Functional-stage Specialization in the Production of Metallurgical Plants (Nazrevshiyе voprosy stadiynoy spetsializatsii proizvodstva vnutri metallurgicheskogo predpriyatiya)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, Nr 66, pp 12-20

ABSTRACT: An analysis of the growing functional-stage specialization in the production at metallurgical enterprises points to the immediate need for carrying out a number of organizational-technical measures. In the blast-furnace industry such measures include the establishment of special production departments for the neutralization of Fe ores, and for the desulfurization of pig iron outside of the blast furnaces; in open-hearth production these measures encompass the establishment of independent departments attached to the various shops for the preparation of molds and of the preparation of the charge, as well as transfer of responsibility for all operations connected with the preparation, processing, and transportation of reducing agents, to the storage

Card 1/2

137-1958-3-4669

The Growing Need for Functional-stage Specialization (cont.)

to the storage department for ferroalloys; in the rolling industry the measures include the elimination of scattered storage facilities and the establishment of single central storage areas for the finished products at large plants, as well as the creation of centralized roll-lathe shop facilities. The elimination of existing decentralization of repair facilities and the creation of a large specialized mechanical-repair shop at every plant will result in a more rational utilization of manpower and equipment, improved planning and organization of repairs, as well as in the adaptation of progressive methods in repair operations.

A. D.

Card 2/2

AUTHOR: Osintsev, A. S., Dr. of Economic Sciences. Professor. 369
(Ural's Polytechnical Institute).

TITLE: On the methods of developing old Ural's Works.
(O putyakh razvitiya starykh ural'skikh zavodov).

PERIODICAL: "Stal'" (Steel), 1957, No.4, pp.352-354 (U.S.S.R.)

ABSTRACT: This is a criticism of the paper by G. V. Vitin
(Stal', 1956, No.2) of the same title. After stating
basic principles on which any development of an old
plant should be based, the author discusses in general
terms some proposed developments which, in his opinion,
are wrong. This applies to the following works:
Beloretsk, Verkhniya-Salda, Nizhny-Tagil' and Chusovsk.
There are 3 Russian references.

OSINTSEV, Arkadiy Stepanovich; KATYSHEV, V.L., red.; AVRUTSKAYA, R.P.,
red., izd-va; DUBUZHINSKAYA, L.V., tekhn.red.

[Iron industry of the U.S.S.R. on a new upswing] Chernaya metal-
lurgiya SSSR na novom pod'eme. Moskva, Gos. nauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1958. 72 p.
(Iron industry) (MIRA 11:5)

PHASE I BOOK EXPLOITATION

865

Osintsev, Arkadiy Stepanovich

Chernaya metallurgiya SSSR na novom pod'yeme (Ferrous Metallurgy of the USSR on the Increase), Moscow, Metallurgizdat, 1958. 73 p.
3,000 copies printed.

Ed.: Katyshev, V.L.; Ed. of Publishing House: Avrutschaya, R.F.;
Tech. Ed.: Dobuzhinskaya, L.V.

PURPOSE: This booklet is intended for engineers and technicians, as well as for general readers interested in economics, organization of production, and technical advances in metallurgical production and other branches of industry.

COVERAGE: The book gives information on technical advances, increased output, and improvement of production methods in the Soviet iron-and-steel industry. No personalities are mentioned. There are no references.

Card 1/2

Ferrous Metallurgy of the USSR (Cont.) 865

TABLE OF CONTENTS:

Introduction 3

- | | |
|---|----|
| 1. Volume of Iron and Steel Production in 1956-1960 | 6 |
| 2. Capital Construction and Geographical Distribution of Metallurgy in the USSR | 12 |
| 3. Technical Advances in Ferrous Metallurgy in the USSR | 29 |
| 4. Improvement in the Operation of Metallurgical Establishments | 60 |
| 5. Further Improvement in the Forms of Industrial Control | 69 |

AVAILABLE: Library of Congress

Card 2/2

GO/sfm
12-22-58

OSINTSEV, A.S., doktor ekon.nauk; DUKHNEVICH, V.I., inzh.

"Economy of ferrous metals" by L.L. Zusman. Reviewed by A.S.Osintsev,
V.I. Dukhnevich. Stal'20 no.9:860-861 S '60. (MIRA 13:9)
(Metalwork--Accounting) (Iron) (Steel)
(Zusman, L.L.)

OSINTSEV, A.S., prof., doktor ekonomicheskikh nauk

Methods for determining the degree of mechanization. Trudy Ural.
politekh.inst. no.78:181-189 '60. (MIRA 14:5)
(Factory management)

KAGANOV, Genrikh Aleksandrovich; OSINTSEV, A.S., prof., doktor ekon.
nauk, rezensent; KUZHNOVA, M.L., red. izd-va

[Increasing labor productivity is the path to abundance;
based on the work materials of the enterprises of fer-
rous metallurgy] Povyshenie proizvoditel'nosti truda -
put' k izobiliyu; po materialam raboty predpriatii chernoi
metallurgii. Sverdlovsk, Metallurgizdat, 1961. 35 p.
(MIRA 15:11)

(Sverdlovsk Province--Iron industry--Labor productivity)
(Sverdlovsk Province--Steel industry--Labor productivity)

YARKOV, Vyacheslav Vyacheslavovich; OSINTSEV, A.S., prof., doktor
ekon. nauk, rekreentzent; CHAPAYKINA, F.K., red. izd-va;
MATLYUK, R.M., tekhn. red.

[Learn to manage] Uchis' khoziaistvovat'. Sverdlovsk, Metal-
lurgizdat, 1961. 43 p.
(Steel industry.-Management)
(Industrial management)

VESEKLOV, Nikolay Grigor'yevich; OSINTSEV, Arkadiy Stepanovich; ZHURAVLEV,
G.P., retsenzent; VERSHININ, A.M., red.; SYRCHINA, M.M., red. izd-va;
MATLYUK, R.M., tekhn. red.

[Analysis of potentialities for the reduction of the cost of cast
iron] Analiz rezervov snisheniya sebestoimosti chuguna. Sverdlovsk,
Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii,
Sverdlovskoe otd-nie, 1961. 124 p. (MIRA 14:6)
(Cast iron) (Metallurgical plants--Costs)

OSINTSEV, A.S., prof., doktor ekonom. nauk; VASIL'YEVA, I.M., inzh.

Methodology for determining the cost of steel smelting in processing
vanadium pig iron. Trudy Ural. politekh. inst. no.120:58-61 '61.
(MIRA 16:6)

(Sverdlovsk Province--Steel industry--Costs)

KVASKOV, A.P., doktor tekhn.nauk (Sverdlovsk); OSINTSEV, A.S., doktor
ekonom.nauk (Sverdlovsk); ROZHNOVSKIY, A.A., inzh. (Sverdlovsk)

Complete use of Ural iron ores. Gor.zhur. no.2:54-58 P '63.
(MIRA 16:2)
(Ural Mountains--Iron ores) (Ore dressing)

OSINTSEV, Arkadiy Stepanovich; RYABIN'KIY, B.Ya., red.; KOVALEVSKIY, M.A., red.izd-va; KOROVINA, N.A., tekhn. red.

[Technical progress in ferrous metallurgy] Tekhnicheskii progress v chernoi metallurgii. Moskva, Metallurgizdat, 1963. 51 p. (MIRA 17:1)

VESELOV, Nikolay Grigor'yevich; OSINTSEV, A.S., prof., doktor ekon.
nauk, retsenzent; SKOROBOGACHEVA, A.P., red. izd-va;
MAL'KOVA, N.T., tekhn. red.

[Cost reduction is a source of the growth of the nation's
wealth] Snishenie sebestoimosti produktsii- istochnik rosta
obshchestvennogo bogatstva. Izd.2. Moskva, Metallurgisdat,
1963. 44 p. (MIRA 16:6)

(Metal trade) (Costs, Industrial)

VESELOV, Nikolay Grigor'yevich; OSINTSEV, A.S., prof., doktor ekon.
nauk, retsenzent; SKOROBOGACHEVA, A.P., red.izd-va;
MAL'KOVA, N.T., tekhn. red.

[Ways to utilize the production funds of an enterprise to
a better advantage] Puti luchshego ispol'zovaniia proiz-
vodstvennykh fondov predpriatiia. Izd.2. Moskva, Metal-
lurgizdat, 1963. 40 p. (MIRA 16:9)

(Iron industry--Management)
(Steel industry--Management)

OSINTSEV, Arkadiy Stepanovich; VIGCHIKOV, M.M., red.

[Economics of ferrous metallurgy in the U.S.S.R.] Ekonika chernoi metallurgii SSSR. Moskva, Metallurgija, 1964. 242 p. (MIRA 17:12)

OSINTSEV, A.S.; PODOLY, V.M.; LEBEDEV, V.K.

Economic work in industrial enterprises should be in the center
of public attention. Izv. vya. cheb. zav.; Chern. met. "Metall"
199-202 165. (MIRA 18:1)

OSINTSEV, M.A.

Potentialities of the Oktyabr' Main Line for increasing
traffic speeds. Zhel.dor.transp. 44 no.5:8-12 My '62.
(MIRA 15:5)

1. Nachal'nik Oktyabr'skoy zheleznoy dorogi.
(Railroads--Traffic)

OSINTSEV, M.A. (g.Leningrad)

On an express line. Zhel.dor.transp. 42 no.9:48-52 S '60.
(MIRA 13:9)

1. Machal'nik Oktyabr'skoy dorogi.
(Railroads)

OSINTSEV, M.A.

Seven-year assignment for the increase of labor productivity
to be fulfilled in 5 years. Zhel.dor.transp. 42 no.1:
15-20 Ja '60. (MIRA 13:5)

1. Nachal'nik Oktyabr'skoy dorogi.
(Railroads)

Osint-SV, K.A.

Organizing rapid movement of passenger trains on the October Railroad. Zhdanov. transp. 39 no. 7:8-11 J1 '57. (i.R. 1 -)

1. Nachal'nik vtyabr'skoy dorogi.
(railroads--passenger traffic)

OSINTSEV, M. A.

Ekspluatatsionnaia rabota [zheleznykh dorog]. [Railroad operation]. (IN Levin,
B. I. Osnovnye voprosy piatiletnego plana vosstanovleniya i razvitiia zheleznodorozhno-go
transport, Moskva, 1947, p. 87-110).

DLC: HE3137.L4

SO: Soviet Transportation and Communications. A Bibliography, Library of Congress
Reference Department, Washington, 1952, Unclassified.

ZAKHAROV, M.V.; TIKHONOV, B.S.; OSINTSEV, O.Ye.

Highly resistant, electric conductivity copper alloy not containing scarce and costly elements. Izv.vys.ucheb.zav.; tsvet.met. 5 no.3:122-128 '62. (MIRA 15:11)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra metallovedeniya.
(Copper alloys--Electric properties)

S/149/62/000/003/007/011
A006/A101

AUTHORS: Zakharov, M. V., Tikhonov, B. S., Osintsev, O. Ye.

TITLE: High-strength conductive copper alloys without scarce or expensive components

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya,
no. 3, 1962, 122 - 128

TEXT: To select a high-strength conductive copper alloy with good operational properties and without scarce or expensive admixtures, the authors studied the properties of four groups of copper alloys (Cu-Cr-Zr; Cu-Cr-Cd; Cu-Cr-Mg; Cu-Ni-Be and Cu-NiBe+Ti). The composition of the alloys is given (Table 1). The alloys were prepared from charges of electrolytically pure "MO" grade copper and "NO" grade nickel and copper addition-alloys containing Zr, Cd, Mg, Be, Ti and Cr. The manufacture of the alloys is described. Castings, 50 x 60 x 110 mm in size, were hot and cold rolled; the cold rolled specimens were annealed or water quenched. The hardness, electric conductivity, long and short-lasting hardness and mechanical properties at various temperatures of the alloys were measured. With a view to the mechanical, electric and operational properties and the produc-

Card 1/8 2

High-strength conductive copper alloys...

S/149/62/CCO/CC3/307-011
A006/A101

tion most of the alloys investigated, the authors recommend for industrial tests the new conductive chrome-magnesium copper-alloy, containing 0.15 - 0.3% Cr; 0.1 - 0.2% Mg, the rest Mo grade copper. This alloy shows in annealed state at 20°C σ_B as high as 35 - 40 kg/mm²; $\delta = 15 - 20\%$, and at 600°C $\sigma_B = 15 - 16 \text{ kg/mm}^2$ and $\delta = 19 - 26\%$. It can well replace the more expensive "Cu 5A" (Mts5A)-type conductive alloys. Highest ultimate strength ($\sigma_{B_{ductility}} = 80$ and 32 kg/cm²) is offered by low-conductive alloy 14 showing low ductility at 20 - 600°C. This alloy should be improved by reducing its electric conductivity in annealed state and raising its strength properties. There are 7 tables.

ASSOCIATION: Krasnoyarskiy institut tsvetnykh metallov (Krasnoyarsk Institute of Non-Ferrous Metals). Kafedra metallovedeniya (Department of Metal Science)

SUBMITTED: December 8, 1961

Card 2/3 >

OSINTSEV, P.M.

Additional squeeze equipment for the upper layers of half molds.
Sbor. st. NII.IAZHMASH Uralmashzavoda no.9.40-47 '65.
(MIRA 18 8)

OSINTSEV, V.V., inzh.

Change of the gland network of the AKV-12 turbine. Energetik 9
no.6:10-11 Je '61. (MIRA 16:7)

(Steam turbines)

OSINTSEV, V.V., inzh.

Reduction of noise in a turbocompressor and reducing gear systems.
Energetik 9 no.6:11-12 Je '61. (MIRA 16:7)

(Turbomachines—Noise)
(Electric power plants—Noise)

BLOTSKIY, S.N., inzh.; OSINTSEV, V.V., inzh.; DEMCHENKO, F.N., inzh.;
Prinimali uchastiye: VOLODIN, M.V.; KOGAN, I.M.; ZAKHAROV, N.V.;
BLOTSKIY, A.N.; UKKONEN, V.A.

Increase in the efficiency of the Brown-Bowery steam turbine. From.
energ. 17 no.3:28-29 Mr '62.
(MIRA 15:2)
(Steam turbines)

OSINTSEV, V.V., inzh.

Servicing of the auxiliary equipment of turbocompressors by one
engineer. Energetik 10 no.5:16-17 My '62. (MIRA 15:5)
(Metallurgical plants—Equipment and supplies)

OSINTSEV, V.V.

Blast furnace practice with an oxygen-enriched blow. Biul.
TSIICHM no.4:37-38 '61. (MIRA 14:10)

1. Chelyabinskij metallurgicheskiy zavod.
(Blast furnaces) (Oxygen—Industrial application)

KOGAN, I.M.; OSINTSEV, V.V.

Reduction of the noise produced by turbocompressors. Biul.TSIICHM
no.4:49-50 '61. (MIRA 14:10)

1. Chelyabinskiy metallurgicheskiy zavod.
(Turbomachines--Noise)

OS INTSEV, Ye., inzh.

Cargo "arrester" for floating and portal cranes. Recd. transp.
24 no. 10:34 '65. (MIRA 18:12)

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(Rozdol region--Strip mining) (Shear (Mechanics))

ACC NR: AT6036938

SOURCE CODE: UR/0000/66/000/000/0159/0177

AUTHORS: Rutman, D. S.; Osintseva, O. G.

ORG: none

TITLE: Technology, properties, and means of improving the manufacture of electrical silicon carbide heaters

SOURCE: Nauchno-tehnicheskoye obshchestvo chernoy metallurgii. Moskovskoye pravleniye. Vysokoognepornyye materialy (Highly refractory materials). Moscow, Izd-vo Metalluriya, 1966, 159-177

TOPIC TAGS: silicon carbide, electric device, electric equipment

ABSTRACT: This paper is a review of the properties and present-day Soviet methods of manufacturing electrical silicon carbide heaters. The following topics are discussed: 1) physicochemical processes occurring during the thermal treatment of silicon carbon heating elements; 2) methods developed to increase the density of the elements; 3) influence of the quality of raw materials on the properties of the heating elements; 4) obtaining elements with positive thermal resistance coefficients; 5) factors that affect the high-temperature stability of heating elements; 6) improvements in the construction of heating elements. Each topic is accompanied by pertinent graphs and tables taken from the literature (see Fig. 1).

Card 1/2

ACC NR: AT6036938

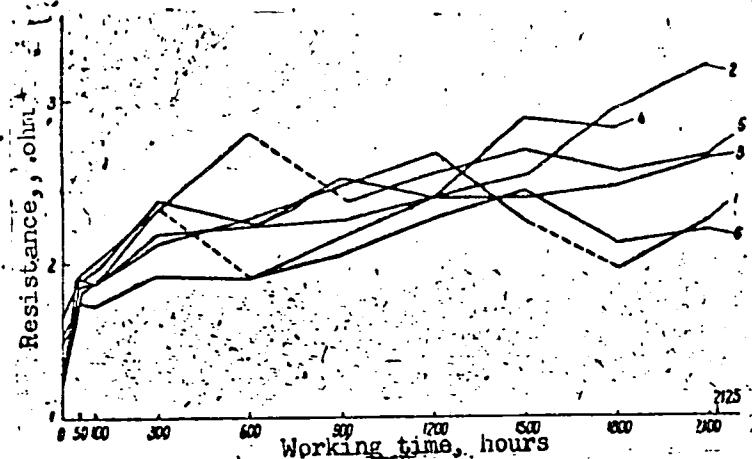


Fig. 1. Change in the electrical resistance of large-grain heaters with positive thermal resistance coefficient TKES. Measurements in a six-rod furnace at 1300°C. 1 to 6 - number of rod

It is concluded that the research results obtained to date will, eventually, yield better electrical heaters of improved stability for industrial applications. Orig. art. has: 10 tables and 4 graphs.

SUB CODE: 13,09 // SUBM DATE: 02Nov65 / ORIG REF: 007

Card 2/2

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Tuberculosis and leprosy. The first comparative processes in
tuberculosis. A new method of diagnosis. MIRZOYAN, E.

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